SAFETY DATA SHEET- DISPEX

According to regulation (EC) No 2020/878

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Dispex A40

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Primarily used for the production of Casting Slips.

1.3 Details of the supplier of the safety data sheet

Valentine Clays LTD

Valentine Way

Stoke on Trent

ST4 2FJ

t: +44 (0)1782 271200

e: sales@valentineclays.co.uk

w: www.valentineclays.co.uk

1.4 Emergency Telephone Number

+44 (0)1782 271200

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

No need for classification according to GHS criteria for this product

2.2 Label Elements

The product does not require a hazard warning label in accordance with GHS criteria

2.3 Other Hazards

No specific dangers known, if the regulations/notes for storage and handling are considered.

If applicable information is provided in this section on other hazards which do not result in classification, but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical Nature- Aqueous solution based on: Acrylic polymer

Hazardous Ingredients (GHS) according to Regulation (EC) No. 1272/2008

Sodium Acrylate	CAS No	EC No	REACH	Content (W/W)	Aquatic Acute 1 Aquatic Chronic 2 M-factor Acute 1 H411, H400
	7446-81-3	231-209-7	012119513204-55	>= 0.3 % - < 1	

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

Section 4: First Aid Measures

4.1 Description of first aid measures

General Instructions- Remove contaminated clothing

After Inhalation- If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

After Ingestion- Rinse mouth and then drink plenty of water.

After Eye Contact- Wash affected eyes for at least 15 minutes under running water with eyelids held open.

After Skin Contact- Wash thoroughly with soap and water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No significant reaction of the human body to the product known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5: Firefighting Measures

5.1 Suitable extinguishing media

Water spray, dry powder, foam

5.2 Special Hazards arising from the substance or mixture

Harmful vapours, carbon oxides Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3 Advice for Fire Fighters

Special protective equipment- Wear a self-contained breathing apparatus.

5.4 Further Information

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

Section 6: Accidental Release Measures

6.1 Personal Precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

6.2 Environmental Precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

For large amounts: Pump off product. For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

6.4 Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion: Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Stove-lacquer AV500, Stove-lacquer R 78433, Stove-lacquer RDL 50, High density polyethylene (HDPE). Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

The packed product is not damaged by low temperatures or by frost. Protect from temperatures above: 65 °C Properties of the product change irreversibly on exceeding the limit temperature.

7.3 Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8: Exposure Controls/ Personal Protection

8.1 Control Parameters

Components with Occupational Exposure Limits- No occupational exposure limits known.

8.2 Exposure Controls

Personal Protective Equipment

Respiratory protection- Respiratory protection not required.

Hand protection- Chemical resistant protective gloves (EN 374) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection- Safety glasses with side-shields (frame goggles) (e.g. EN 166)

General Safety and Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form- aqueous solution

Colour- yellow

Odour- mild

Odour threshold- No applicable information available.

pH value- approx. 6.5 - 8 (10 %(m)) (DIN 19268)

Pour point- approx. -5 °C boiling point: approx.100 °C Contains water.

Flash point- A flash point determination is unnecessary due to the high-water content.

Evaporation rate- not determined

Flammability- not flammable

Lower explosion limit- As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit- As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Ignition temperature- Based on the water content the product does not ignite.

Vapour pressure- approx. 23 mbar (20 °C) Contains water

Density- approx. 1.3 g/cm3 (20 °C)

Relative density- approx. 1.3 (20 °C)

Relative vapour density (air)- not determined

Solubility in water- readily soluble (20 °C)

Partitioning coefficient n-octanol/water (log Kow)- Study scientifically not justified.

Self-ignition- Based on the water content the product does not ignite.

Thermal decomposition- Stable up to boiling point. Viscosity, dynamic: approx. 700 mPa.s (23 °C)

(DIN EN ISO 2555)

Explosion hazard- not explosive

Fire promoting properties- not fire-propagating

9.2 Other Information

Miscibility with water- (20 °C) soluble

Hygroscopy- Non-hygroscopic

Surface tension- not determined

Grain size distribution- The substance / product is marketed or used in a non-solid or granular form.

Section 10: Stability and Reactivity

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated. Corrosion to metals: Corrosive effects to metal are not anticipated.

10.2 Chemical Stability

The product is stable if stored and handled as prescribed/indicated.

10.3 Possibility of Hazardous Reactions

No hazardous reactions when stored and handled according to instructions.

10.4 Conditions to Avoid

See MSDS section 7 - Handling and storage.

10.5 Incompatible Materials

Substances to avoid- reactive chemicals, water reactive substances, strong oxidizing agents, strong reducing agents.

10.6 Hazardous Decomposition Products

Hazardous decomposition products: No hazardous decomposition products known.

11.1 Information on toxicological effects

Acute Toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data: LD50 rat (oral): > 5,000 mg/kg

LC50 rat (by inhalation): > 5 mg/l

LD50 (dermal): > 2,000 mg/kg

Irritation

Assessment of irritating effects: Not irritating to eyes and skin.

Experimental/calculated data: Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation: non-irritant (similar to OECD guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

Experimental/calculated data: Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406) The product has not been tested. The statement has been derived from the properties of the individual components.

Germ cell mutagenicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity: No data available.

Developmental toxicity

Assessment of teratogenicity: No data available.

Specific target organ toxicity (single exposure)

Assessment of STOT single: Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects.

Repeated inhalative uptake of the substance did not cause substance-related effects.

Repeated dermal uptake of the substance did not cause substance-related effects.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Section 12: Ecological Information

12.1 Toxicity

Assessment of aquatic toxicity- There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish- LC50 (96 h) > 100 mg/l, Leuciscus idus

Aquatic invertebrates- EC50 (48 h) > 100 mg/l, Daphnia magna (Screening (style of OECD 202), static) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic plants- EC50 (72 h), algae No data available.

Microorganisms/Effect on activated sludge- The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Chronic toxicity to fish- No data available regarding toxicity to fish.

Chronic toxicity to aquatic invertebrates- No data available regarding toxicity to daphnids.

Assessment of terrestrial toxicity- No data available concerning terrestrial toxicity.

12.2 Persistence and Degradability

Assessment biodegradation and elimination (H2O): Moderately/partially biodegradable.

12.3 Bio accumulative Potential

Assessment bioaccumulation potential- Accumulation in organisms is not to be expected.

Bioaccumulation potential- Significant accumulation in organisms is not to be expected.

12.4 Mobility in Soil

Assessment transport between environmental compartments- Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil- Adsorption to solid soil phase is possible.

12.5 Results of PBT and vPvB Assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bio accumulative/toxic) criteria or the vPvB (very persistent/very bio accumulative) criteria.

12.6 Other Adverse Effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

12.7 Additional Information

Add. remarks environment. fate & pathway: Treatment in biological wastewater treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice: The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Section 13: Disposal Considerations

13.1 Waste Treatment Methods

Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

Contaminated Packaging- Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

Section 14: Transport Information

Land transport

ADR- Not classified as a dangerous good under transport regulations

UN number- Not applicable

UN proper shipping name- Not applicable

Transport hazard class(es)- Not applicable

Packing group- Not applicable

Environmental hazards- Not applicable

Special precautions for user-None known

RID- Not classified as a dangerous good under transport regulations

UN number- Not applicable

UN proper shipping name- Not applicable

Transport hazard class(es)- Not applicable

Packing group- Not applicable

Environmental hazards- Not applicable

Special precautions for user- None known

Inland Waterway Transport

ADN- Not classified as a dangerous good under transport regulations

UN number- Not applicable

UN proper shipping name- Not applicable

Transport hazard class(es)- Not applicable

Packing group- Not applicable

Environmental hazards- Not applicable

Special precautions for user- None known

Transport in inland waterway vessel Not evaluated

Sea transport

IMDG- Not classified as a dangerous good under transport regulations

UN number- Not applicable

UN proper shipping name- Not applicable

Transport hazard class(es)- Not applicable

Packing group- Not applicable

Environmental hazards- Not applicable

Special precautions for user- None known

Air transport

IATA/ICAO- Not classified as a dangerous good under transport regulations

UN number- Not applicable

UN proper shipping name- Not applicable

Transport hazard class(es)- Not applicable

Packing group- Not applicable

Environmental hazards- Not applicable

Special precautions for user- None known

14.1. UN number

See corresponding entries for “UN number” for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for “UN proper shipping name” for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for “Transport hazard class(es)” for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for “Packing group” for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for “Environmental hazards” for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for “Special precautions for user” for the respective regulations in the tables above.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation- Not evaluated

Shipment approved- Not evaluated

Pollution name- Not evaluated

Pollution category- Not evaluated

Ship Type- Not evaluated

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

15.2 Chemical Safety Assessment

Chemical Safety Assessment not yet performed due to registration timelines

Section 16: Other Information

Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3

Aquatic Acute- Hazardous to the aquatic environment- acute

Aquatic Chronic- Hazardous to the aquatic environment - chronic

H411- Toxic to aquatic life with long lasting effects.

H400- Very toxic to aquatic life.

This data sheet is provided under CLP and REACH Regulation and is not intended to constitute an assessment of workplace risk associated with product(s) used as required under any other Health and Safety Regulation.

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

Date of Review: January 2025

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